

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A surgical probe for use with tissue, comprising:
a shaft defining a distal ~~end~~ portion and a proximal ~~end~~ portion;
a plurality of energy transmission devices supported on the distal portion
of the shaft;
a tissue cooling apparatus supported on the shaft including an outer member positioned about the plurality of energy transmission devices such that a continuous fluid transmission space is defined therebetween having an inlet and an outlet; and
a drainage tube, extending distally from the distal portion of the shaft, that conveys fluid passing through the fluid transmission space outlet away from the tissue.
2. (Original) A surgical probe as claimed in claim 1, wherein the shaft comprises a relatively short shaft.
3. (Original) A surgical device as claimed in claim 2, wherein at least a portion of the relatively short shaft is malleable.
4. (Original) A surgical device as claimed in claim 1, wherein the plurality of energy transmission devices comprises a plurality of electrodes.
5. (Original) A surgical probe as claimed in claim 1, wherein the tissue cooling apparatus comprises a porous structure.

6. (Original) A surgical probe as claimed in claim 5, wherein the porous structure comprises a microporous structure.

7. (Original) A surgical probe as claimed in claim 1, wherein the fluid transmission space defines a substantially constant cross-sectional area between the inlet and the outlet.

8. (Currently Amended) A surgical probe as claimed in ~~claim 8~~ claim 1, wherein the fluid transmission space defines a substantially annular shape.

9. (Currently Amended) A surgical probe ~~as claimed in claim 1~~ , further comprising:

a shaft defining a distal end and a proximal end;

a plurality of energy transmission devices supported on the shaft;

a tissue cooling apparatus supported on the shaft including an outer member positioned about the plurality of energy transmission devices such that a continuous fluid transmission space is defined therebetween having an inlet and an outlet;

a drainage tube that conveys fluid passing through the fluid transmission space outlet away from the tissue; and

a fluid supply line associated with the inlet and supported on the exterior of the shaft.

10-27. (Canceled)

28. (Previously Presented) A surgical probe as claimed in claim 1, wherein the fluid transmission space is located radially outwardly of the energy transmission devices.

29. (Previously Presented) A surgical probe as claimed in claim 1, wherein the fluid transmission space is located between the tissue cooling apparatus and the energy transmission devices.

30. (Previously Presented) A surgical probe as claimed in claim 1, wherein the fluid transmission space surrounds the energy transmission devices.

31. (Previously Presented) A surgical probe as claimed in claim 1, wherein the energy transmission devices each define a diameter and the tissue cooling apparatus defines a diameter that is no more than about 3 times the diameter of the energy transmission devices.

32. (Previously Presented) A surgical probe as claimed in claim 31, wherein the tissue cooling apparatus defines a diameter that is about 1.2 to 2 times the diameter of the energy transmission devices.

33. (Previously Presented) A surgical probe as claimed in claim 1, wherein the plurality of energy transmission devices comprises a plurality of flexible energy transmission devices.

34. (Previously Presented) A surgical probe as claimed in claim 33, wherein the plurality of energy transmission devices comprises a plurality of coil electrodes.

35. (Canceled)

36. (Canceled)

37. (Previously Presented) A surgical probe for use with tissue, comprising:
a shaft defining a distal end and a proximal end;
a plurality of energy transmission devices supported on the shaft; and
a tissue cooling apparatus supported on the shaft including an outer member, configured to permit ionic transfer while substantially preventing fluid perfusion therethrough, positioned about the plurality of energy transmission devices such that a continuous fluid transmission space is defined therebetween having an inlet and an outlet.

38. (Previously Presented) A surgical probe as claimed in claim 37, wherein the outer member comprises a microporous structure.

39. (Previously Presented) A surgical probe as claimed in claim 37, wherein the fluid transmission space defines a substantially constant cross-sectional area between the inlet and the outlet.

40. (Previously Presented) A surgical probe as claimed in claim 37, further comprising:
a fluid supply line associated with the inlet.

41. (Previously Presented) A surgical probe as claimed in claim 37, wherein the fluid transmission space is located radially outwardly of the energy transmission devices.

42. (Previously Presented) A surgical probe as claimed in claim 37, wherein the fluid transmission space is located between the tissue cooling apparatus and the energy transmission devices.

43. (Previously Presented) A surgical probe as claimed in claim 37, wherein the fluid transmission space surrounds the energy transmission devices.

44. (Previously Presented) A surgical probe as claimed in claim 37, wherein the energy transmission devices each define a diameter and the tissue cooling apparatus defines a diameter that is no more than about 3 times the diameter of the energy transmission devices.

45. (Previously Presented) A surgical probe as claimed in claim 37, wherein the plurality of energy transmission devices comprises a plurality of flexible energy transmission devices.

46. (Previously Presented) A surgical probe as claimed in claim 45, wherein the plurality of energy transmission devices comprises a plurality of coil electrodes.

47. (Previously Presented) A surgical probe as claimed in claim 37, wherein the shaft comprises a relatively short shaft.

48. (Previously Presented) A surgical probe as claimed in claim 37, wherein the plurality of energy transmission devices comprises a plurality of electrodes.

49. (Previously Presented) A surgical probe, comprising:
a shaft defining an exterior, a distal end and a proximal end;
a plurality of energy transmission devices supported on the shaft; and
a tissue cooling apparatus, fixedly secured around the exterior of the shaft, including an outer member positioned about the plurality of energy transmission devices such that a continuous fluid transmission space having an inlet and an outlet is defined between the tissue cooling apparatus and the exterior of the shaft.

50. (Previously Presented) A surgical probe as claimed in claim 49, wherein the shaft comprises a relatively short shaft.

51. (Previously Presented) A surgical probe as claimed in claim 49, wherein the plurality of energy transmission devices comprises a plurality of electrodes.

52. (Previously Presented) A surgical probe as claimed in claim 49, wherein the plurality of energy transmission devices comprises a plurality of flexible energy transmission devices.

53. (Previously Presented) A surgical probe as claimed in claim 52, wherein the plurality of energy transmission devices comprises a plurality of coil electrodes.

54. (Previously Presented) A surgical probe as claimed in claim 49, wherein the outer member comprises a microporous structure.

55. (Previously Presented) A surgical probe as claimed in claim 49, wherein the fluid transmission space defines a substantially constant cross-sectional area between the inlet and the outlet.

56. (Previously Presented) A surgical probe as claimed in claim 49, further comprising:
a fluid supply line associated with the inlet.

57. (Previously Presented) A surgical probe as claimed in claim 49, wherein the energy transmission devices each define a diameter and the tissue cooling apparatus defines a diameter that is no more than about 3 times the diameter of the energy transmission devices.